

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P973582

Luminaire Tested: FLR2-22-25-L935-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-25-L935-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

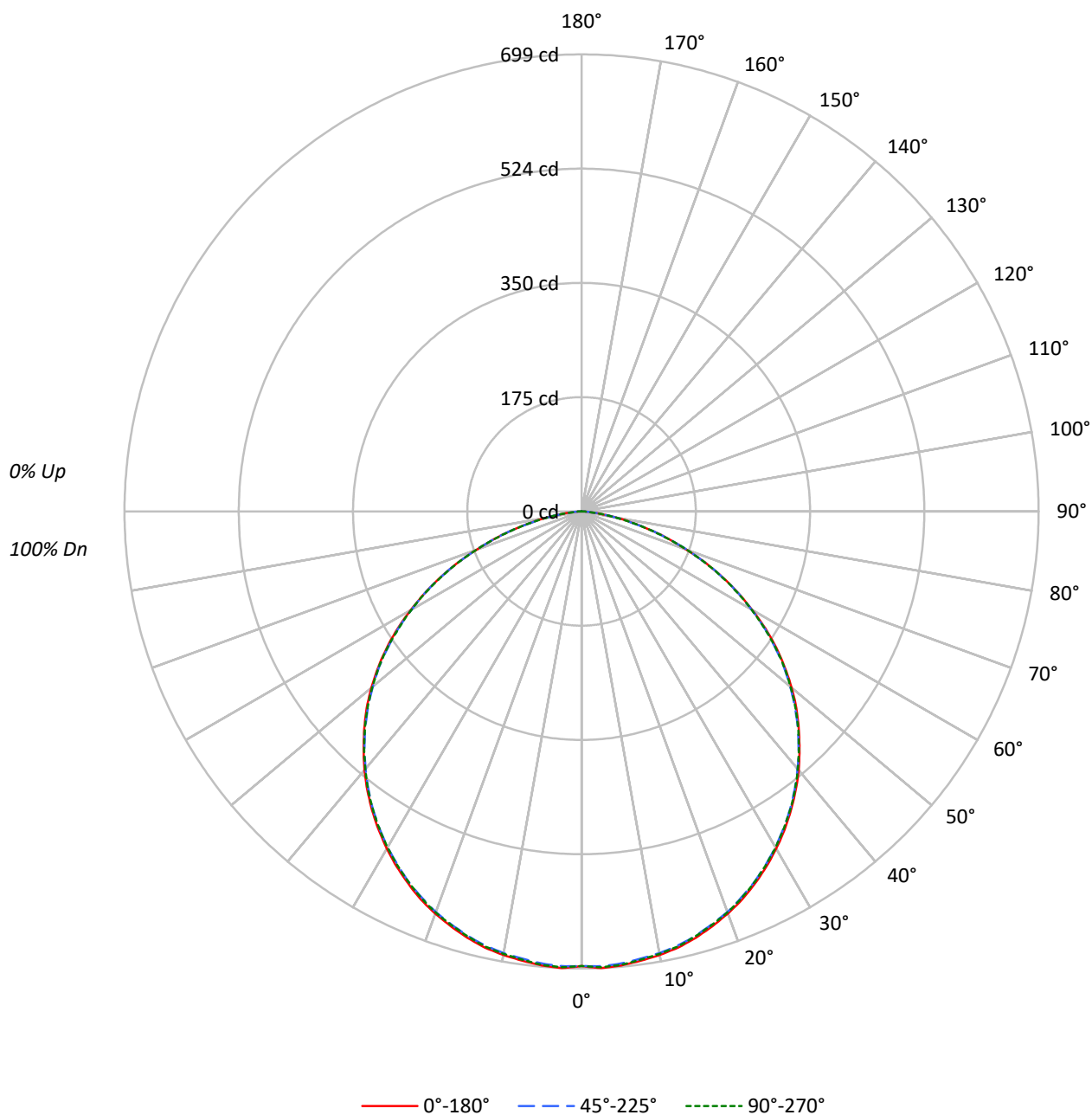
Lumens per Lamp: N/A
Luminaire Lumens: 1944.3 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 18.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44		
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1871	1871	1871
5°	1883	1875	1880
10°	1882	1874	1877
15°	1881	1872	1875
20°	1874	1867	1869
25°	1864	1857	1858
30°	1851	1843	1844
35°	1834	1827	1828
40°	1815	1806	1807
45°	1788	1780	1783
50°	1757	1744	1747
55°	1706	1692	1698
60°	1623	1616	1616
65°	1515	1512	1507
70°	1341	1348	1345
75°	1129	1121	1111
80°	812	798	792
85°	423	423	411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1788 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	3.4
10°-20°	189.3	9.7
20°-30°	287.7	14.8
30°-40°	347.8	17.9
40°-50°	361.0	18.6
50°-60°	322.7	16.6
60°-70°	234.6	12.1
70°-80°	115.4	5.9
80°-90°	20.0	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	542.9	27.9
0°-40°	890.6	45.8
0°-60°	1574.3	81.0
0°-90°	1944.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1944.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	695	695	695	695	695	
5°	697	689	694	691	696	66
15°	675	667	672	670	673	190
25°	628	621	625	624	626	289
35°	558	554	556	556	556	349
45°	470	468	468	468	468	362
55°	364	362	361	362	362	324
65°	238	239	238	238	237	235
75°	109	110	108	108	107	115
85°	14	14	14	14	13	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.3	695.3	695.3	695.3	695.3
2.5°	699.1	691.0	696.1	693.1	697.8
5°	697.0	688.8	694.0	691.4	696.1
7.5°	693.1	684.9	690.1	687.5	691.4
10°	688.8	680.2	685.8	683.2	687.1
12.5°	683.2	675.1	680.2	678.1	681.5
15°	675.1	667.3	672.1	670.3	672.9
17.5°	665.2	657.5	662.2	660.9	663.0
20°	654.5	647.2	651.9	650.6	652.7
22.5°	642.4	634.7	639.0	638.1	639.9
25°	627.8	621.0	625.3	624.0	625.7
27.5°	612.4	605.9	609.4	609.4	610.2
30°	595.6	589.6	593.1	593.1	593.5
32.5°	577.6	572.9	575.0	575.4	575.4
35°	558.3	554.4	556.1	556.5	556.5
37.5°	538.1	534.2	535.5	536.4	536.4
40°	516.6	513.2	514.0	514.9	514.5
42.5°	493.4	490.8	491.3	492.1	492.1
45°	469.8	467.7	467.7	468.5	468.5
47.5°	445.8	443.6	442.7	443.6	443.6
50°	419.6	417.4	416.6	417.4	417.4
52.5°	392.1	389.9	389.9	389.9	390.4
55°	363.7	361.6	360.7	361.6	362.0
57.5°	333.7	332.8	331.5	332.0	330.7
60°	301.5	301.5	300.2	301.0	300.2
62.5°	270.1	271.0	269.7	269.7	268.8
65°	237.9	238.8	237.5	237.5	236.6
67.5°	204.8	206.1	204.4	204.4	203.6
70°	170.5	173.1	171.3	171.8	170.9
72.5°	139.6	140.9	139.1	139.1	138.3
75°	108.6	109.5	107.8	108.2	106.9
77.5°	78.2	79.4	77.7	78.2	77.7
80°	52.4	52.8	51.5	52.0	51.1
82.5°	30.5	30.9	30.5	30.1	29.6
85°	13.7	14.2	13.7	13.7	13.3
87.5°	3.4	3.4	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)